

Provisioning GR-303 and TR-008

Provisioning GR-303

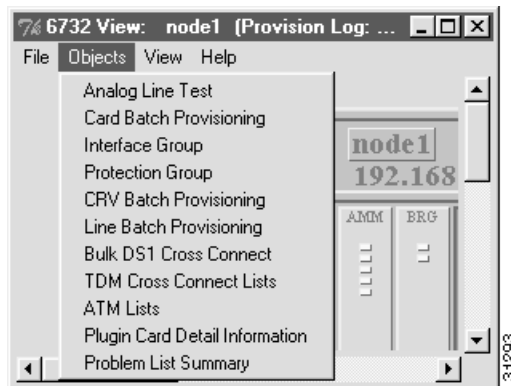
Proper GR-303 provisioning to a Class 5 switch requires that a primary DS1 line and a secondary DS1 line be established. Prior to provisioning, users should determine which DS1 lines from the Class 5 switch will serve as the primary and secondary DS1 lines. Each interface group can have up to 28 DS1s.

Allocating Call Reference Values

The following procedure assigns call reference values (CRVs) to a GR-303 interface group.

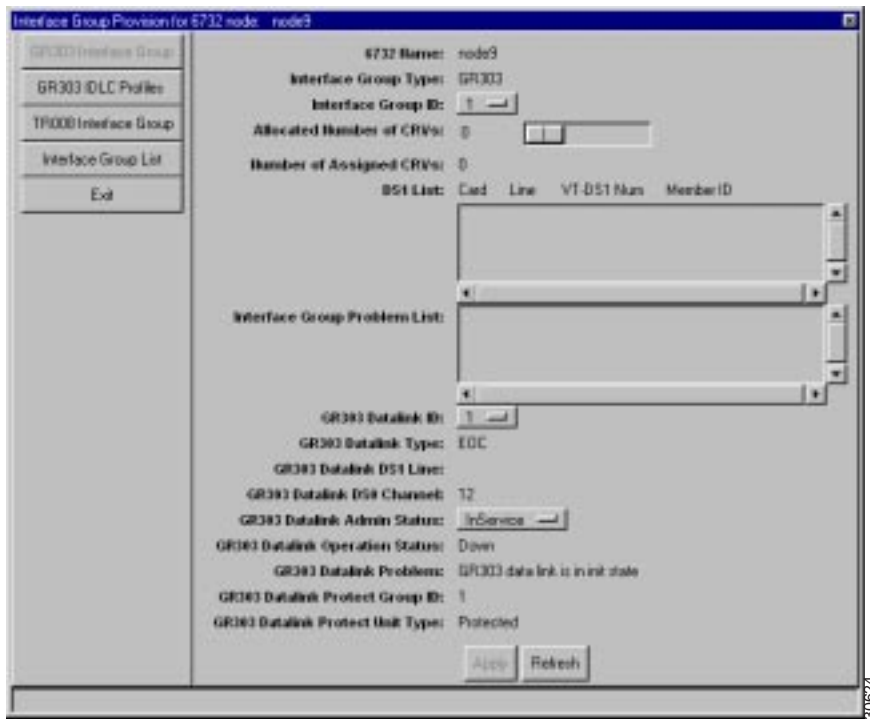
Step 1 Starting from the node view, select **Objects > Interface Group** from the menu bar. (See Figure 7-1.)

Figure 7-1 Node View Menu



Step 2 EMS launches the interface group provisioning window. (See Figure 7-2.) The grayed out **GR-303 Interface Group** tab shows that you are in the GR-303 provisioning screen.

Figure 7-2 Interface Group Provisioning Window



Step 3 Set the following GR-303 parameters:

- **Interface Group ID:** Select an interface group ID number (from 1 to 4) that matches the interface group provisioned on the Class 5 switch.
- **Allocated Number of CRVs:** Enter the number of CRVs to be assigned to the interface group. The CRV range assigned to this interface group must match the CRVs of the Class 5 switch phone numbers.

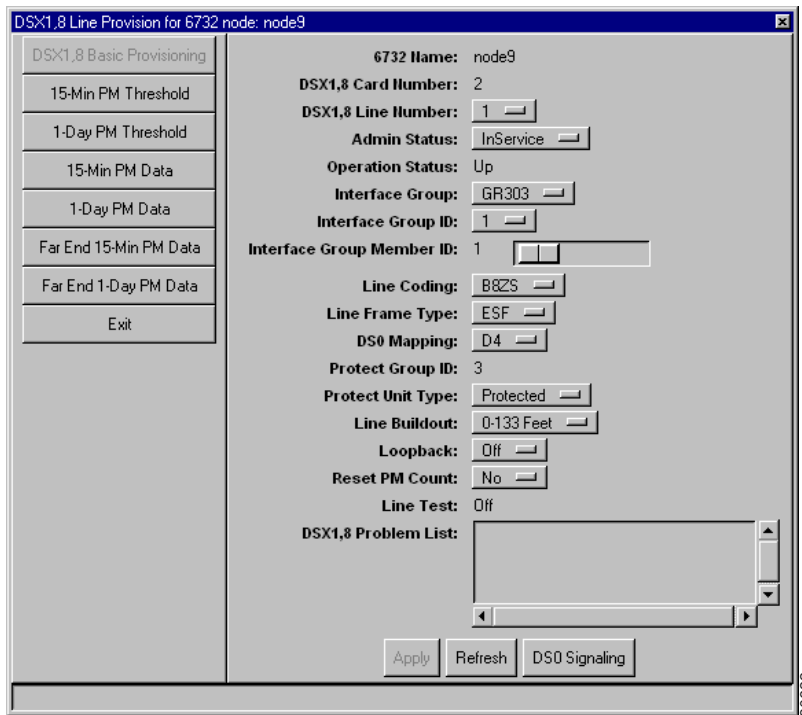
Step 4 Click **Apply** to provision CRVs for the interface group.

Provisioning DS1 Lines for GR-303

At least two DS1 lines (the primary and secondary DS1) must be provisioned for GR-303. Use the following procedure to provision embedded operation channel (EOC) and timeslot management channel (TOC) lines:

Step 1 Starting from node view, double-click the facility (line) to be provisioned. EMS launches the line provisioning window. (See Figure 7-3.)

Figure 7-3 Line Provisioning Window



Note The following procedure must be completed at least **twice**—once to assign a primary DS1 line, and once to assign a secondary DS1 line.

Step 2 In the line provisioning window, set the following parameters:

- **Interface Group:** Select **GR-303**.
- **Interface Group ID:** Select the interface group ID number (from 1 to 4) that was assigned CRVs in the “Allocating Call Reference Values” procedure.
- **Interface Group Member ID:** Select an ID for the DS1 line.
 - Select **1** for the primary DS1 line.
 - Select **2** for the secondary DS1 line.
 - Assign a unique member ID for each additional DS1 line in the interface group.

Step 3 Click **Apply** to provision the DS1 line.

Step 4 Repeat this procedure until all DS1 lines are assigned to the GR-303 interface group.

Note To reassign an incorrect interface group ID or member ID, first set the ID to **0** and click **Apply**, then select the correct ID number and click **Apply**.

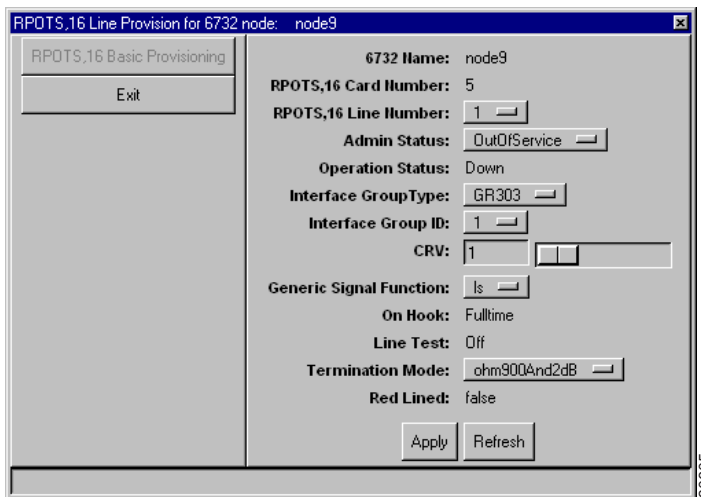
Provision GR-303 Analog Lines

GR-303 provides dynamic cross connects. This type of concentration allows one DS1 to serve more than 24 subscribers. Instead of creating traditional cross connections, GR-303 provisioning is performed by assigning call reference values (CRV) to analog lines. CRVs are used to build translation tables on the Class 5 switch that map remote analog connections to internal circuits at the switch.

Individual CRV Provisioning

To begin GR-303 provisioning, launch the node view of a specific node. Double-click on a specific analog line to launch the line provisioning window. (See Figure 7-4.)

Figure 7-4 Individual CRV Provisioning



From the line provisioning window, the following parameters must be defined:

- **Interface Group Type:** Select **GR-303**.
- **Interface Group ID:** Select the interface group ID number (from 1 to 4) used on the Class 5 switch.
- **CRV:** Select a CRV for this line. Each GR-303 line must be provisioned with a unique CRV.

Click **Apply** to complete GR-303 provisioning for the line. Repeat this procedure to provision additional GR-303 lines.

CRV Individual Reset

To change or reset the Call Reference Value (CRV) of an analog line, complete the following steps from the analog line provisioning window:

- Step 1** Change the **Interface Group Type** of each analog line to be reset to **TR-008**.
- Step 2** Click **Apply** to complete the change.
- Step 3** Change the **Interface Group Type** of the line back to **GR-303**, and reassign the **CRV** as desired. The appropriate **Interface Group ID** must also be specified.
- Step 4** Click **Apply** to complete the change.

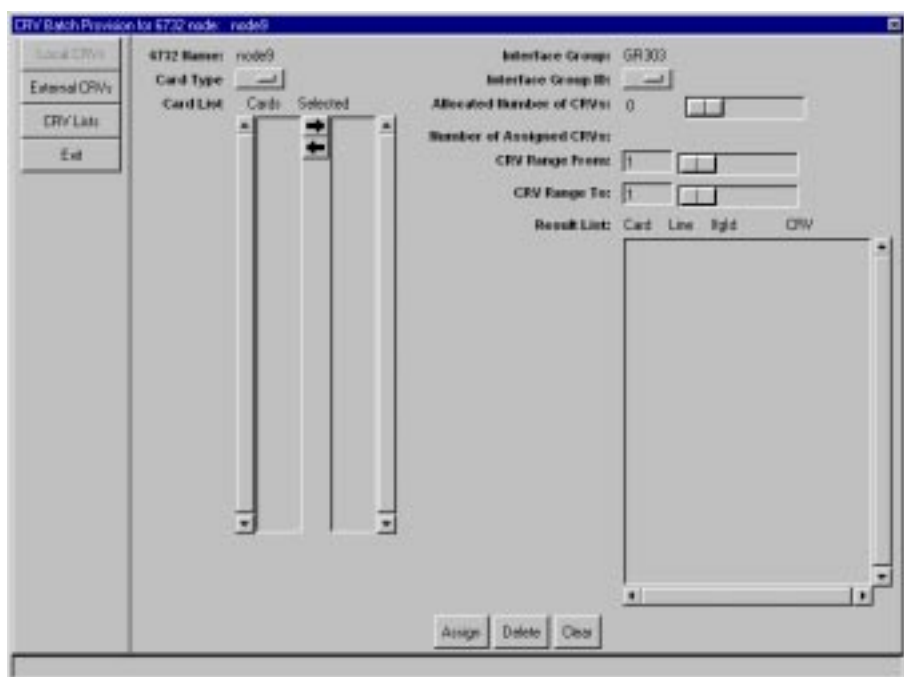
This procedure must be followed to change the CRV for any analog line while performing GR-303 provisioning from the analog line provisioning window.

CRV Batch Provisioning

Intra-node GR-303 provisioning can also be performed in batch mode (that is, multiple POTS lines and RPOTS cards can be provisioned at one time).

Step 1 To begin batch CRV provisioning, select **Objects > CRV Batch Provisioning** from the node view of the node to be provisioned. (See Figure 7-5.) The grayed out **Local CRV** tab indicates that you are at the local CRV provisioning window.

Figure 7-5 CRV Batch Provisioning

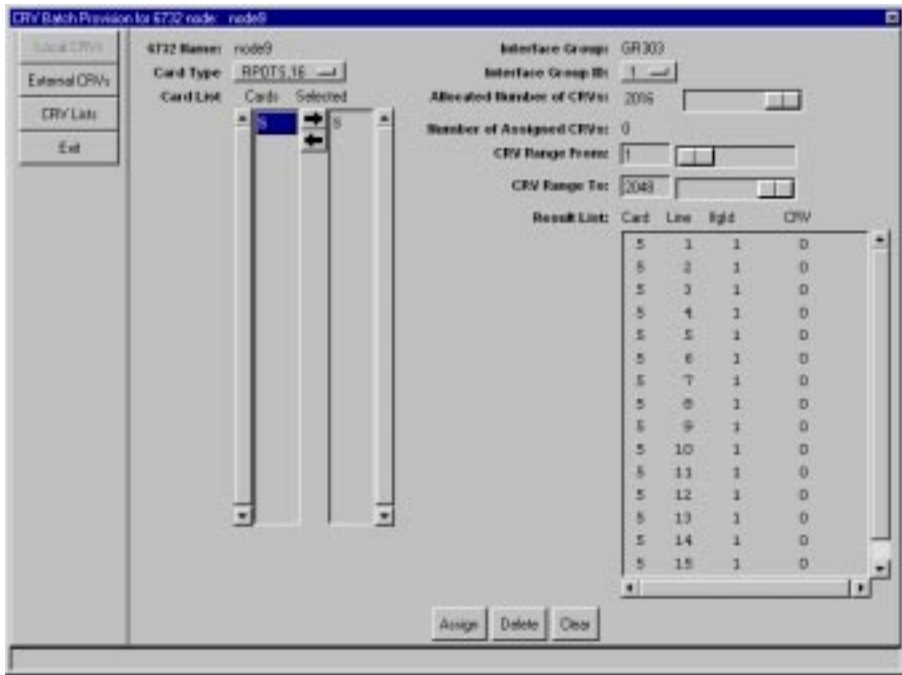


Step 2 From the CRV batch provisioning window, select the **Card Type** to be provisioned. Upon selecting a card type, EMS will display the applicable card numbers in the **Card List** display.

Step 3 In the card list display, highlight the cards to be provisioned. Click the right arrow icon to move the selected cards to the **Selected** list.

Step 4 Select the appropriate **Interface Group ID** (from 1 to 4), and click the **List** button to show card, line, and interface group information in the **Result List** display.

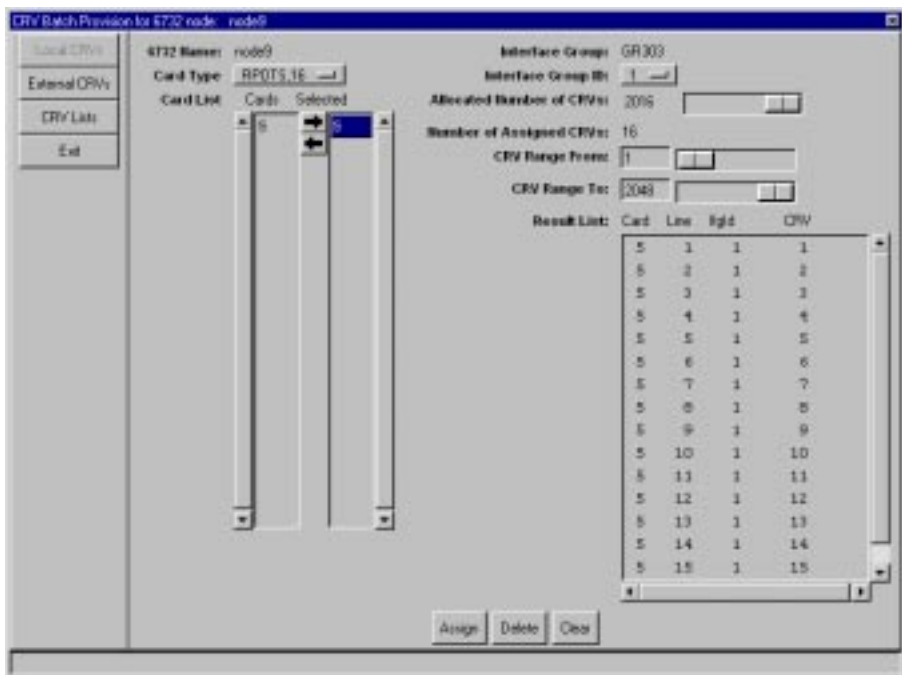
Figure 7-6 Card and Line Information Displayed



Step 5 To assign CRVs, enter starting and ending values in the **CRV Range From** and **CRV Range To** fields.

Step 6 Highlight the lines to be provisioned in the result list, and click **Assign** to begin the CRV batch provisioning process. EMS displays the assigned CRVs in the result list. (See Figure 7-7.)

Figure 7-7 CRV Batch Assignment Confirmed

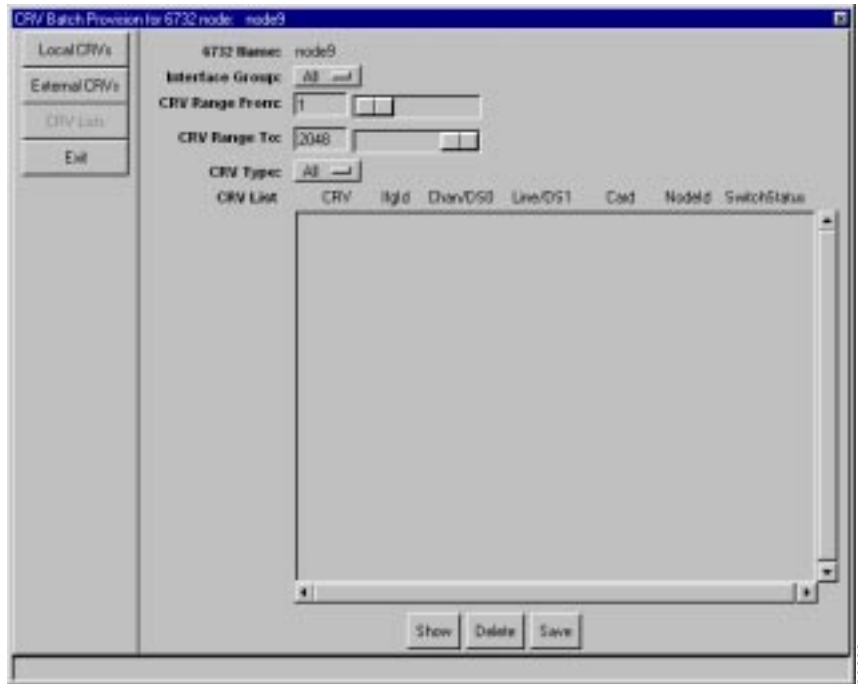


CRV Batch Reset

To change or reset the Call Reference Value (CRV) of POTS lines while provisioning in CRV batch mode (CRV Batch Provisioning screen):

- Step 1** Select **Objects > CRV Batch Provisioning** from the node view of the node to be provisioned. Click the **CRV Lists** tab to launch the CRV list window. (See Figure 7-8.)

Figure 7-8 CRV Lists Window

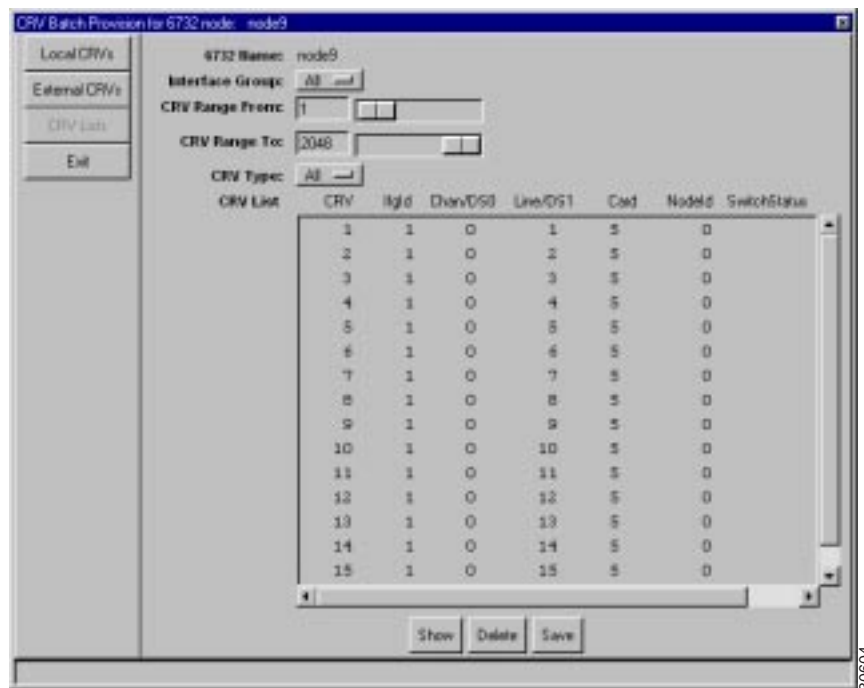


- Step 2** Set the following parameters in the CRV list window:

- **Interface Group:** set to **All** to display all interface groups, or select an interface group (from 1 to 4).
- **CRV Type:** set to **All** to display all CRV types, or select **Local**, **Remote**, or **External** to display different CRV types.

- Step 3** Click **Show** to display the CRV information, including card and line numbers, in the CRV List. (See Figure 7-9.)

Figure 7-9 CRV List Display



Step 4 In the CRV list display, highlight the CRVs to be deleted. Click **Delete** to delete the CRVs. EMS confirms the deletion by removing the selected CRVs from the CRV list.

Provisioning TR-008

To set the DSX1 line that is connected to the Class 5 Switch for TR-008 operation, use the settings listed below:

- **Interface Group:** Select **TR-008**.
- **Interface Group ID:** Select the interface group ID number (from 1 to 4) used by the Class 5 switch.
- **Interface Group Member ID:** Select the proper group member ID (from A to D).

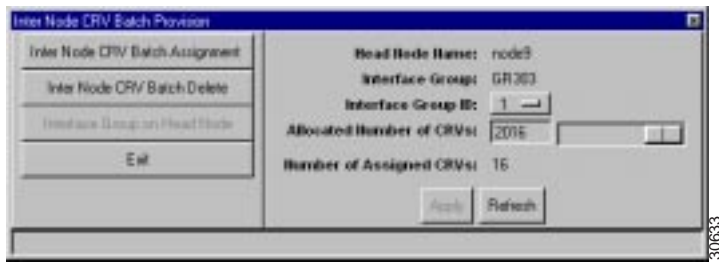
Provisioning Remote CRVs

EMS allows users to provision POTS lines in batch mode for GR-303.

Note An inter-node data link must be established between the nodes involved in the CRV assignment before CRV provisioning can be performed.

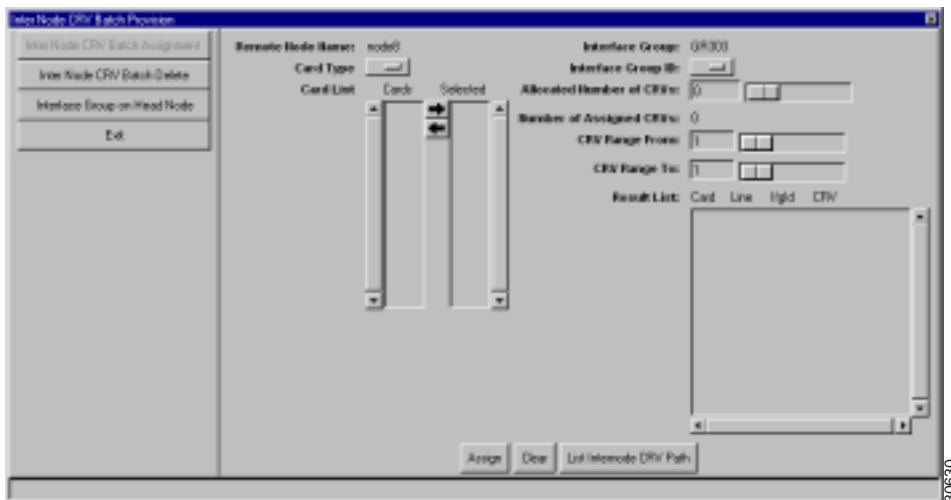
Step 1 Select **Applications > CRV Batch Provisioning** from the inter node cross connect display menu. EMS launches the inter node CRV batch provision screen. (See Figure 7-10.)

Figure 7-10 Inter-Node GR-303: Assign Interface Group



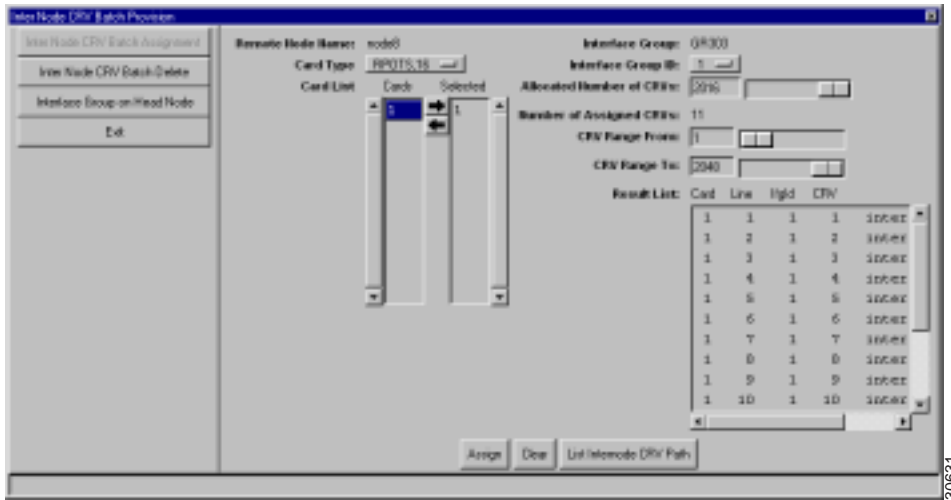
- Step 2** Select an **Interface Group ID** to be assigned (from 1 to 4).
- Step 3** Set the **Allocated Number of CRVs** to the number of CRVs for the selected interface group.
- Step 4** Click **Apply** to provision the interface group.
- Step 5** Click **Inter-Node CRV Batch Assignment** in the function bar. EMS displays the inter node CRV batch assignment window. (See Figure 7-11.)

Figure 7-11 Inter-Node GR-303: Initiate Batch CRV Provisioning



- Step 6** From the inter node CRV batch provision window, the following parameters must be defined:
 - **Card Type:** Set to the desired analog card (FXS/16, RPOTS/16, or RUVG/8).
 - Highlight the card or cards from the **Card List** to be provisioned. Click the right arrow button to move the selected cards to the **Selected** list.
 - **Interface Group ID:** Select the interface group ID being provisioned, from 1 to 4.
 After the appropriate cards have been moved to the **Selected** list, click the **List** button to display card and line information. (See Figure 7-12.)

Figure 7-12 Inter Node GR-303: Complete CRV Batch Provisioning



- Step 7** Set the following fields for remote CRV batch provisioning:
- **Interface Group ID:** Select the interface group being provisioned.
 - **Allocated Number of CRVs:** Enter the number of CRVs to be allocated for the interface group.
 - **CRV Range From and CRV Range To:** Enter starting and ending values for the CRVs to be allocated.
- Step 8** Click **Assign** to provision the CRVs.

CRV Batch Reset

To change or reset the CRVs of analog lines:

- Step 1** Select **CRV Batch Reset** in the function bar. EMS displays the CRV batch reset window. (See Figure 7-13.)

Figure 7-13 Initiate Inter-Node CRV Batch Reset



Step 2 Set the following parameters:

- **Card Type:** select the desired analog card (FXS/16, RPOTS/16, or RUVG/8).
- Highlight the desired card or cards from the **Card List** to be reset. Click the right arrow button to move the selected cards to the **Selected** list.
- Click **Reset** to reset the CRV assignments of the selected analog lines to 0 (unassigned).

